

**AMBLER AIRPORT DUST SUPPRESSION  
PROJECT # 61021  
Ambler, Alaska**

**November 26, 2008**



Prepared for:

**Alaska Department of Transportation  
& Public Facilities**

Prepared by:



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## 1.0 Executive Summary

This report has been completed by **NORTECH Environmental Engineering, Health & Safety (NORTECH)** for the Alaska Department of Transportation and Public Facilities (ADOT&PF) as a sub-consultant for R&M Consultants (R&M) under the Statewide Hazardous Waste & Environmental Services Term Agreement – 2008; RFP #4.

Ambler, Alaska has had a known Naturally Occurring Asbestos (NOA) issue since 2003 when it was found to be present in the gravel quarry. The NOA-containing gravel has been used on Ambler's road systems, runway and on numerous other local projects. Several efforts have been made by state and federal agencies in determining the extent of the NOA, alternative gravel sources and the potential health and safety concerns for the residents of Ambler.

The greatest potential for asbestos exposure exists during activities involving NOA gravel which create visible dust. Planes landing/taking off from Ambler are a daily occurrence which can create a substantial amount of visible dust. ADOT&PF is aware of the NOA concern in Ambler, and has taken steps in order to reduce the risk of asbestos exposure near the runway. For landing safety the runway needed to be re-graded, which required additional gravel; however, the only gravel source available was the NOA-containing gravel from the local NANA Corporation quarry. It was determined the gravel from the quarry could be used to repair the runway if work practice controls were put in place to control potential worker exposure. The project work plan developed and implemented included worker training as well as monitoring and oversight to document results achieved. In addition to the runway repair, a dust suppressing palliative was applied to portions of the runway, apron and road into Ambler.

Following worker asbestos awareness training the runway was repaired utilizing modified work practices, wet methods and NOA-containing aggregate. Exposure monitoring documented negative exposure assessments (NEA) for each sub-task monitored, including aggregate extraction, loading, transport and placement as well as runway grading, watering and palliative application.

The scope of work completed was in accordance with **NORTECH'S** July, 2008 proposal, work plan, and fee estimate.

## 2.0 Background

Asbestos is a magnesium silicate mineral fiber that was mined and used extensively in a variety of building construction materials for insulation and as a fire-retardant. Inhalation exposures to airborne asbestos fibers have been linked to lung cancer,





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asbestosis and mesothelioma. The US Environmental Protection Agency and Consumer Protection Safety Commission have effectively banned the majority of asbestos products; however, building materials with asbestos containing materials (ACM) are still available at US retail stores.

The incidence and concentration of naturally occurring asbestos in aggregates and soils is based on the geology of a specific area. The US Geological Survey conducts ongoing monitoring of historical asbestos mines, former asbestos exploration prospects and natural asbestos occurrences in rocks and soil. Natural weathering and human activities, such as the mining and use of NOA-containing rocks and soils, have the potential to release airborne asbestos fibers into the environment.

Ambler Alaska is located approximately 45 miles north of the Arctic Circle, on the north bank of the Kobuk River, near the confluence of the Ambler River. In 2003 bulk gravel samples from a source used to construct the community airport, roads and utility systems were determined to be contaminated with Chrysotile NOA at variable concentrations as high as 10%. These findings resulted in indefinite delays of public funding of airport, road and utility projects that jeopardized the community's public health systems and impacted the local economy.

Alaska Department of Labor and Workforce Development (ADOL) and Occupational Safety & Health Labor Standards and Safety Division (AKOSH) performed a limited health survey in 2003 which recommended mandatory footwear cleaning before entering buildings, HEPA vacuuming and covering existing site surfaces. In June 2007, the Agency for Toxic Substances and Disease Registry (ATSDR) released a community exposure assessment, following an investigation requested by the Manilaq Association. The ATSDR community exposure investigation focused on whether all terrain vehicle (ATV) use on the Ambler gravel roads could lead to significant asbestos exposures for riders and pedestrians along the side of the road. The summer ATV exposure investigation found dust and asbestos exposure levels of health concern when exposed to visible airborne dust clouds caused by ATV traffic. However, ambient reference sampling in the community indicated airborne asbestos at a level of risk not likely to be a health concern. The ATSDR report recommended that access to the Ambler gravel quarry be closed, a community educational program be implemented and short and long term solutions for the road dust and potentially contaminated surface soil be developed and implemented.

The following public health assessments have been completed.

- **Public Health Evaluation and Assessment - Interim Report.** May 20, 2005. Middaugh, John P. and Arnold, Scott. Asbestos Exposure - Ambler. Alaska Division of Public Health.



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- Medical records review for residents of Ambler, Kobuk, Shungnak and Kiana, to see if asbestos-related diseases had occurred
  - No asbestos-related diagnoses on death certificate; no mesothelioma cases dating back to 1970
  - On review of chest X-ray, nine people with pleural plaques suspicious for asbestos exposure
  - **Investigation of Possible Environmental Asbestos Exposure in Northwest Alaska, 2004-2005.** Chimonas, Marc, Middaugh, John and Arnold, Scott. - Interim Report. June 15, 2005. Alaska Division of Public Health.
    - Expert review of 130 chest X-rays from villagers 50 and older; interviews conducted
    - Twenty-one individuals with either pleural plaques or pulmonary fibrosis suspicious for asbestos exposure. Some were exposed to asbestos occupationally.
    - Not possible to definitively establish or exclude environmental asbestos exposure as a cause of disease

As part of a current water and sewer improvement project in Ambler, the Alaska Native Tribal Health Consortium (ANTHC) funded an Environmental Assessment (EA) related to the utilization of NOA aggregate. A modified work plan was developed and initial exposure assessments were completed that documented negative exposure assessments (NEA) for the standardized tasks involved with the utility project. The EA study is currently being finalized, preliminary drafts and contacts with the author and ANTHC have indicated that recommendations will include modified work practices employing routine watering during dry project efforts as well as the application of palliatives to control visible dust and NOA exposure.

In April and August 2008, **NORTECH** traveled to Ambler to perform winter and summer assessment of Federal Aviation Administration (FAA) work practices and facilities located adjacent to the runway. The winter sampling effort did not include exterior area samples due to the snow/moisture present on the runway and apron. The winter and summer sampling results documented that routine FAA maintenance activities did result in airborne asbestos fiber concentrations above the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 0.1 fibers per cubic centimeter (f/cc); even though a substantial amount of asbestos structures were identified in settled dust/dirt in the FAA facilities. Increasing custodial activities to routinely remove visible dust was recommended.

In preparation for the runway repair in July 2008, a NOA public hearing was held in Ambler that all residents were encouraged to attend. Several Federal, State, Local and private entities were involved with presentations. These included Village of Ambler, ADOT&PF, NANA, Northwest Arctic Borough and **NORTECH**. The public hearing was





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undertaken to update the village residents regarding ADOT&PF's efforts to locate "clean" gravel sources and the planned maintenance project to repair the runway with the application of a dust palliative to control airborne exposure. Another topic addressed in some detail during the meeting was public health concerns and providing recommendations regarding steps Ambler residents can take in order to reduce the risk of potential asbestos exposure.

### 3.0 Scope of Work

The ADOT&PF intended to address control of airborne NOA as well as general dust on the Ambler Airport's main runway during repairs, application of a dust palliative agent (Durasoil) and subsequent runway use. As further detailed in *NORTECH's* July 2008 proposal and fee estimate, the ADOT&PF-requested scope of work included:

- Review and provide assistance in the finalization of the ADOT&PF's proposed work plan and staff training to repair the runway and apply the palliative agent while controlling dust and asbestos fiber release.
- Attendance by a NOA knowledgeable and experienced Certified Industrial Hygienist (CIH) at a public meeting in Ambler to assist the ADOT&PF's representative in informing the citizens and community of project details and answering any health related questions.
- Provide oversight and complete activity-based exposure monitoring during palliative application to ensure worker exposure is compliant with the OSHA permissible exposure levels (PEL) for dust and asbestos.

### 4.0 Methodology

All field oversight and sampling was completed by an experienced Environmental Specialist with state of Alaska current supervisor certification, EPA asbestos inspector and NIOSH 582 certifications. Field work, sample analysis and preparation of this report was overseen and reviewed by a CIH.

The personnel air samples were collected and analyzed according to the mandatory Appendix A of 29 CFR 1910.1001 *Asbestos*. Breathing zone samples were collected for all tasks associated with the runway repair and palliative application. The pumps were calibrated prior to and immediately following each sampling period. The cassette cowl was positioned near the technician's shirt collar, with the inlet downward to avoid gross contamination. Workers were instructed to avoid knocking the cassette, which could potentially dislodge the sample. The workers were monitored throughout the day to ensure pumps were operating correctly.



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Area air samples were collected at a higher flow rate, to assess potential ambient airborne concentrations of asbestos fibers, while project work activities were occurring. The sampling methods prescribed in Appendix A of 29 CFR 1910.1001 *Asbestos* were utilized.

All samples were analyzed by EHS Laboratories, Inc., a NVLAP certified laboratory, according to NIOSH Method 7400. The required sampling method for potential occupational exposures is described in Appendix A of 29 CFR 1910.1001 *Asbestos*. The laboratory analysis utilizes phase contrast microscopy (PCM). At the client's discretion, asbestos air samples may also be analyzed by transmission electron microscopy (TEM), according to 40 CFR Part 763, Appendix A to Subpart E, the US Environmental Protection Agency abatement containment clearance criteria. TEM provides much higher microscopic resolution and is utilized to identify smaller diameter asbestos fibers.

Prior to the start of the project, all workers attended 2-hour Asbestos Awareness Training presented by **NORTECH's** CIH. This course meets EPA training requirements under AHERA 40 CFR 763.92(a)(2)(I) for school custodial and maintenance personnel and OSHA training requirements 29 CFR 1926.1101 (k)(9) for Class IV work.

## 5.0 Limitations

**NORTECH** provides consulting services that are performed with the standard of care and competence found within the industrial hygiene practice and the environmental engineering profession. It should be recognized that there are limitations to any occupational exposure assessment. The data presented in this report should be considered representative of the work practices monitored at the time of the assessment. Changes in exposure levels can and will occur with time, due to natural processes, work activities and/or human activities. **NORTECH** has performed the work, developed the associated findings and proposed the recommendations described in this report using accepted practice and technology available at the time the assessment was conducted.

**NORTECH** has based its conclusions and recommendations on the Firm's current understanding of laws, agency regulations and consensus standards. The regulations and professional consensus standards are constantly changing including the agency interpretations. If changes in the regulations, standards or the agency interpretations occur, **NORTECH** reserves the right to amend or revise the conclusions and/or recommendations in this report.



## 6.0 Field Activities

On August 4, 2008, **NORTECH's** staff of a CIH and Environmental Specialist arrived at Ambler. A crew of three workers was scheduled to perform the runway repair and palliative application, all requiring Asbestos Awareness Training. **NORTECH** met the crew, discussed the work plan and began the Asbestos Awareness Training. After the training was complete, the crew began mobilizing equipment to the airport.

The first project task was repairing the runway and reestablishing the crown. This required the runway to be graded while adding several loads of gravel. The crew foreman operated the grader while the other workers operated the gravel truck and loader. The loading, grading and gravel hauling operations occurred simultaneously, with the grader leveling out the new gravel, as well as grading the entire width of the runway. Eleven loads of gravel aggregate or 110 cubic yards (approximately 10 cubic yards per load) were excavated, loaded, transported, placed and spread on the main runway.

Ambler had received several days of rain prior to the project start, leaving the runway, roads and quarry wet. No visible dust emissions were observed during grading, loading, driving or plane take off/landings the first day onsite.

Grading and gravel hauling continued the following day (August 5, 2008). Weather conditions changed to warm and sunny allowing the runway and road systems to dry. Visible dust was observed from planes prop wash in the late morning and behind the gravel truck by late-afternoon. The gravel in the quarry remained very moist however, and no visible dust emissions were observed during loading or grading. Thirty-four loads (approximately 340 cubic yards) of gravel aggregate were spread on the runway on this day.

On August 6, the crew began spreading gravel and grading on the runway apron. By afternoon, the runway and apron were conditioned to begin applying water. Water was applied to increase the effectiveness of compacting and of the palliative. Workers utilized 275-gallon totes installed in the dump truck to apply the water via a gravity feed system. After the water was applied, the crew used an additional truck to pull a compacter over the runway and apron. An additional four loads (approximately 40 cubic yards) of aggregate were spread on the runway and apron.

On August 7, the crew continued to apply water and began compacting the runway and apron. Small amounts of visible dust were observed during watering and compacting. An additional ADOT&PF worker arrived in the afternoon that had applied the dust palliative to several other runways in the region, and was familiar with the application





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process and equipment. The additional ADOT&PF worker continued grading the edges of the runway, apron and the airport road into Ambler. Two workers applied water, while the crew foreman proceeded with compacting the runway and apron.

The crew began applying the palliative on August 8. The Kotzebue ADOT&PF maintenance supervisor arrived in the morning with an electrician to install a motor on the compactor. The motor turned a counterweight inside the compactor, thus increasing efficiency. The crew continued palliative application and compacting throughout the day. By the end of the day the palliative had been applied over the main runway, apron and approximately 0.5 miles down the airport road towards Ambler.

On August 9, the crew returned to continue compacting the area where palliative had been applied, as well as perform miscellaneous maintenance activities at the airport. **NORTECH** did not perform air monitoring on this day since the project scope had been completed.

## 7.0 Sample Results

The summary of asbestos personal breathing zone sample results, including Time Weighted Averages, is presented in Table 1 of Appendix A. A total of 70 breathing zone samples were collected of the following work tasks

- Loader Operator
- Truck Driver
- Grader Operator
- Laborer
- Oversight

A summary of the asbestos area air sample results is presented in Table 2 of Appendix A. A total of 36 asbestos area samples were collected. All area air samples reported area air concentrations less than the 0.01 fibers/cc AHERA clearance concentration. Area sample locations can be found in Figure 4 of Appendix B.

## 8.0 Analysis

OSHA's PEL for asbestosis 0.1 f/cc as an eight-hour time weighted average. The OSHA excursion limit is 1.0 f/cc collected over a 30-minute period. Due to extended work shifts, **NORTECH** also calculated the "actual" TWA for each worker which illustrates the fiber concentration exposure based upon hours worked. None of the personnel samples collected for any of the sub-tasks monitored approached the PEL or excursion limit for asbestos, when analyzed according to NIOSH Method 7400. The



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results represent a negative exposure assessment (NEA) for each of the sub-tasks monitored. The results of the NEA documented AKOSH compliance and are valid for next year for the same crew doing the same work under the same conditions.

Personal samples were collected from workers during all tasks associated with the runway repair and palliative application. Workers directly impacted the NOA gravel source by loading, dumping, spreading, grading, driving and compacting activities. The gravel source was observed to be moist for the duration of the project, and workers limited activities which created excess dust. Forty-nine loads of gravel were used to repair the runway and apron at approximately 10 yd<sup>3</sup>/load totaling four-hundred ninety cubic yards of gravel.

The Asbestos Hazard Emergency Response Act (AHERA) has set the asbestos clearance level at 0.01 f/cc via PCM analysis. All but one area samples collected were found to have asbestos concentrations below the method detection limit of 0.005 f/cc, one-half the clearance level. The area sample collected with a detectable fiber concentration was found to have 0.006 f/cc; well below the clearance concentration. Engineering controls, such as keeping material adequately wet during handling, were incorporated with the assistance of natural weather processes. However, had the runway and quarry material been dry at the project start, additional water would have been added to reduce dust levels.

Area sample results illustrate working with the NOA gravel source can be performed without exposing workers above the OSHA PEL and/or elevating asbestos fiber concentrations in the area the work is being performed. Many of the area samples were running while planes landed, taxied and took off from the airport. These activities were observed to create the most dust; however, with the application of the palliative visible dust levels during these activities has decreased.

Sample results suggest with proper controls installed, the known NOA gravel quarry can be utilized as a gravel source for local maintenance and project needs with limited health and safety concerns regarding asbestos exposure to workers. **NORTECH** did observe visible asbestos mineral rock in the quarry reinforcing the decision for the quarry to remain closed to the general public. It is likely NOA is not present in all areas of the quarry; at least in homogenous concentrations, and a mapping effort is recommended to allow future gravel work to utilize areas of the quarry where low/no concentrations of NOA were found.

Asbestos can pose serious health concerns, and if future work occurs using gravel from the quarry, controls similar to those utilized in this project should be installed. It is recommended that workers scheduled to perform extended or continuous tasks involving NOA aggregate should have a minimum of the 2-hour Asbestos Awareness



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Training, and should be entered into a medical surveillance program conforming to 29 CFR 1926.1101 subpart Z *Medical surveillance guidelines for asbestos*.

The palliative application process did not result in high dust levels or high fiber concentrations per sample analysis. Thirty loads of water, at 1,100 gallons/load totaling 33,000 gallons were placed on the runway, apron and road prior to the palliative application. The main runway (North/South) had the palliative product placed over the entire length and functional width. A total of fourteen totes of palliative was applied at two hundred and seventy-five gallons/tote totaling 3,850 gallons of palliative.

## 9.0 Conclusions and Recommendations

**NORTECH** provided project oversight and air monitoring for the duration of the runway repair and palliative application project and has developed the following conclusions:

- Negative Exposure Assessments (NEAs) documenting AKOSH compliance for asbestos was documented for all sub-tasks associated with the Ambler runway repair utilizing NOA aggregate and during palliative application.
- The dust control palliative was successfully applied to the full length and functional width of the main runway, apron and approximately 0.5 miles down the airport road towards Ambler
  - Forty-eight (49) loads or approximately 490 cubic yards of NOA aggregate was used
  - 33,000 gallons of water was applied.

The following recommendations are provided:

- Employ training, medical surveillance program, wet methods and no visible emissions criteria with NOA aggregate use in the future.
- The NANA local gravel quarry with NOA should remain restricted
  - Perform additional sampling in the quarry to characterize and identify areas with highest/lowest NOA concentrations

## 10.0 Signatures of Environmental Professionals

**Mr. Aaron Winterfeld**, Environmental Specialist for **NORTECH** and Field Project Manager. Mr. Winterfeld has completed various hazardous materials investigations providing professional field screening and sampling. Mr. Winterfeld is a qualified ADEC field sampler, an AHERA Certified Inspector and HAZWOPER certified.

**Mr. Hargesheimer, PE, CIH** is the owner and Principal-In-Charge of **NORTECH**, Inc. Mr. Hargesheimer is a Certified Industrial Hygienist (ABIH#7343), licensed Civil





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Engineer (CE 4703), and a registered Environmental Engineer (#92-20026). He has over thirty years of seasoned Alaskan Civil/Environmental engineering and Industrial Hygiene experience, encompassing industry, regulatory and consulting services. Mr. Hargesheimer has managed or reviewed all of **NORTECH's** more than twenty-five years of project experience including RCRA hazardous materials inspections, abatement design and project monitoring, contaminated site investigation/remediation, NEPA environmental assessments, ASTM property transfer, human health risk assessments, occupational exposure monitoring, indoor air quality and noise. He maintains current EPA accreditation for lead and asbestos inspections, abatement design, risk assessment and project monitoring.

Sincerely,

A handwritten signature in cursive script, appearing to read "Aaron Winterfeld".

Aaron Winterfeld  
Environmental Specialist

A handwritten signature in cursive script, appearing to read "John Hargesheimer".

John Hargesheimer, PE, CIH  
Principal in Charge



## Appendix A





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**Table 1: Asbestos Personal Breathing Zone Sample Results**

| Date   | Sample # | Sample Type <sup>3,4</sup> | Task                | Fibers/Fields | Fiber Concentration (F/cc) <sup>1</sup> | 8-hour TWA <sup>2</sup> | Actual TWA <sup>2</sup> |
|--------|----------|----------------------------|---------------------|---------------|---|-------------------------|-------------------------|
| 8/4/08 | BZ-01    | BRE                        | Oversight           | 6.5/100       | 0.008                                   | <0.009                  | <0.014                  |
|        | BZ-05    | BRE                        | Oversight           | 2.5/100       | <0.013                                  |                         |                         |
|        | BZ-10    | STEL                       | Oversight           | 4.0/100       | <0.066                                  |                         |                         |
| 8/4/08 | BZ-02    | BRE                        | Loader Operator     | 15.0/100      | 0.20                                    | 0.024                   | 0.034                   |
|        | BZ-06    | BRE                        | Loader Operator     | 21.0/100      | 0.037                                   |                         |                         |
|        | BZ-09    | STEL                       | Loader Operator     | 10.5/100      | 0.11                                    |                         |                         |
|        | BZ-13    | BRE                        | Hand Pick Rocks     | 11.0/100      | 0.043                                   |                         |                         |
| 8/4/08 | BZ-04    | BRE                        | Gravel Truck Driver | 8.5/100       | 0.014                                   | 0.009                   | 0.019                   |
|        | BZ-08    | BRE                        | Gravel Truck Driver | 9.5/100       | 0.026                                   |                         |                         |
| 8/4/08 | BZ-03    | BRE                        | Grader Operator     | Void*         | Void*                                   | <0.011                  | <0.022                  |
|        | BZ-07    | STEL                       | Grader Operator     | 10.0/100      | 0.013                                   |                         |                         |
|        | BZ-11    | BRE                        | Grader Operator     | 3.5/100       | <0.074                                  |                         |                         |
|        | BZ-12    | BRE                        | Hand Pick Rocks     | 1.5/100       | <0.037                                  |                         |                         |
| 8/5/08 | BZ-16    | BRE                        | Oversight           | 4.5/100       | <0.008                                  | <0.014                  | <0.011                  |
|        | BZ-18    | STEL                       | Oversight           | 4.0/100       | <0.066                                  |                         |                         |
|        | BZ-22    | BRE                        | Oversight           | 9.0/100       | 0.008                                   |                         |                         |
|        | BZ-26    | BRE                        | Oversight           | 8.5/100       | 0.011                                   |                         |                         |
| 8/5/08 | BZ-14    | BRE                        | Loader Operator     | 32.0/100      | 0.034                                   | <0.031                  | <0.024                  |
|        | BZ-20    | STEL                       | Loader Operator     | 5.5/100       | <0.059                                  |                         |                         |
|        | BZ-23    | BRE                        | Loader Operator     | 21.5/100      | 0.017                                   |                         |                         |
|        | BZ-27    | BRE                        | Loader Operator     | 16.0/100      | 0.019                                   |                         |                         |

<sup>1</sup> Fibers per cubic centimeter of air <sup>2</sup> Time Weighted Average <sup>3</sup> BRE – Breathing Zone <sup>4</sup> STEL – Short Term Excursion Limit  
 \* Cassette detached from pump during sampling



**ADOT&PF Ambler Airport Repair and Dust Suppression  
Asbestos Breathing Zone Sample Analysis  
November 26, 2008**

|  | Date   | Sample # | Sample Type <sup>3,4</sup> | Task                       | Fibers/Fields | Fiber Concentration (F/cc) <sup>1</sup> | 8-hour TWA <sup>2</sup> | Actual TWA <sup>2</sup> |
|--|--------|----------|----------------------------|----------------------------|---------------|---|-------------------------|-------------------------|
|  | 8/5/08 | BZ-17    | BRE                        | Grader Operator            | 15.5/100      | 0.015                                   | <0.018                  | <0.012                  |
|  |        | BZ-21    | STEL                       | Grader Operator            | 5.5/100       | <0.064                                  |                         |                         |
|  |        | BZ-24    | BRE                        | Grader Operator            | 14.5/100      | 0.007                                   |                         |                         |
|  | 8/5/08 | BZ-15    | BRE                        | Gravel Truck Driver        | 12.0/100      | 0.016                                   | 0.036                   | 0.028                   |
|  |        | BZ-19    | STEL                       | Gravel Truck Driver        | 8.5/100       | 0.095                                   |                         |                         |
|  |        | BZ-25    | BRE                        | Gravel Truck Driver        | 19.0/100      | 0.018                                   |                         |                         |
|  |        | BZ-28    | BRE                        | Gravel Truck Driver        | 31.0/100      | 0.046                                   |                         |                         |
|  | 8/6/08 | BZ-29    | BRE                        | Oversight                  | 12.5/100      | 0.014                                   | <0.016                  | <0.018                  |
|  |        | BZ-34    | BRE                        | Oversight                  | 11.0/100      | 0.016                                   |                         |                         |
|  |        | BZ-36    | STEL                       | Oversight                  | 3.5/100       | <0.073                                  |                         |                         |
|  |        | BZ-40    | BRE                        | Oversight                  | 6.0/100       | <0.017                                  |                         |                         |
|  | 8/6/08 | BZ-30    | BRE                        | Loader Operator            | 20.5/100      | 0.022                                   | <0.024                  | <0.027                  |
|  |        | BZ-33    | BRE                        | Extracting Water           | 16.5/100      | 0.022                                   |                         |                         |
|  |        | BZ-37    | STEL                       | Pump Water – Back of Truck | 1.0/100       | <0.066                                  |                         |                         |
|  |        | BZ-41    | BRE                        | Pump Water – Back of Truck | 15.0/100      | 0.037                                   |                         |                         |
|  | 8/6/08 | BZ-31    | BRE                        | Grader Operator            | 39.0/100      | 0.022                                   | <0.031                  | <0.029                  |
|  |        | BZ-38    | STEL                       | Extracting Water           | 5.5/100       | <0.064                                  |                         |                         |
|  |        | BZ-42    | BRE                        | Operate Compactor          | 17.0/100      | 0.053                                   |                         |                         |
|  | 8/6/08 | BZ-32    | BRE                        | Gravel Truck Driver        | 16.0/100      | 0.021                                   | <0.022                  | <0.026                  |
|  |        | BZ-35    | BRE                        | Extracting Water           | 12.5/100      | 0.022                                   |                         |                         |
|  |        | BZ-39    | STEL                       | Water Truck Driver         | 3.5/100       | <0.082                                  |                         |                         |
|  |        | BZ-43    | BRE                        | Water Truck Driver         | 9.0/100       | 0.029                                   |                         |                         |

<sup>1</sup> Fibers per cubic centimeter of air <sup>2</sup> Time Weighted Average <sup>3</sup> BRE – Breathing Zone <sup>4</sup> STEL – Short Term Excursion Limit



**ADOT&PF Ambler Airport Repair and Dust Suppression  
Asbestos Breathing Zone Sample Analysis  
November 26, 2008**

| Sample #   | Date       | Sample # | Sample Type <sup>3,4</sup> | Task                       | Fibers/Fields | Fiber Concentration (F/cc) <sup>1</sup> | 8-hour TWA <sup>2</sup> | Actual TWA <sup>2</sup> |
|------------|------------|----------|----------------------------|----------------------------|---------------|---|-------------------------|-------------------------|
| [REDACTED] | [REDACTED] | BZ-44    | BRE                        | Oversight                  | 2.5/100       | <0.014                                  |                         |                         |
| [REDACTED] | 8/7/08     | BZ-50    | BRE                        | Oversight                  | 17.5/100      | 0.025                                   | <0.017                  | <0.026                  |
| [REDACTED] |            | BZ-51    | STEL                       | Oversight                  | 7.5/100       | 0.082                                   |                         |                         |
| [REDACTED] |            | BZ-55    | BRE                        | Oversight                  | 6.0/100       | 0.026                                   |                         |                         |
| [REDACTED] |            | BZ-45    | BRE                        | Pump Water – Back of Truck | 33.0/100      | 0.026                                   |                         |                         |
| [REDACTED] | 8/7/08     | BZ-48    | BRE                        | Pump Water – Back of Truck | 35.0/100      | 0.029                                   | 0.046                   | 0.039                   |
| [REDACTED] |            | BZ-52    | STEL                       | Pump Water – Back of Truck | 24.5/100      | 0.24                                    |                         |                         |
| [REDACTED] |            | BZ-56    | BRE                        | Pump Water – Back of Truck | 18.0/100      | 0.071                                   |                         |                         |
| [REDACTED] |            | BZ-46    | BRE                        | Operate Compactor          | 28.5/100      | 0.010                                   |                         |                         |
| [REDACTED] | 8/7/08     | BZ-53    | STEL                       | Operate Compactor          | 0.0/100       | <0.099                                  | <0.024                  | <0.016                  |
| [REDACTED] |            | BZ-57    | BRE                        | Operate Compactor          | 13.0/100      | 0.064                                   |                         |                         |
| [REDACTED] |            | BZ-47    | BRE                        | Water Truck Driver         | 12.0/100      | 0.012                                   |                         |                         |
| [REDACTED] | 8/7/08     | BZ-49    | BRE                        | Water Truck Driver         | 19.0/100      | 0.019                                   | <0.022                  | <0.019                  |
| [REDACTED] |            | BZ-54    | STEL                       | Water Truck Driver         | 5.0/100       | <0.074                                  |                         |                         |
| [REDACTED] |            | BZ-58    | BRE                        | Water Truck Driver         | 3.5/100       | <0.030                                  |                         |                         |
| [REDACTED] |            | BZ-59    | BRE                        | Oversight                  | 11.5/100      | 0.011                                   |                         |                         |
| [REDACTED] | 8/8/08     | BZ-63    | STEL                       | Oversight                  | 5.0/100       | <0.066                                  | <0.015                  | <0.016                  |
| [REDACTED] |            | BZ-67    | BRE                        | Oversight                  | 17.0/100      | 0.016                                   |                         |                         |
| [REDACTED] |            | BZ-60    | BRE                        | Apply Palliative           | 18.5/100      | 0.016                                   |                         |                         |
| [REDACTED] | 8/8/08     | BZ-64    | STEL                       | Apply Palliative           | 2.5/100       | <0.048                                  | <0.017                  | <0.016                  |
| [REDACTED] |            | BZ-68    | BRE                        | Apply Palliative           | 19.0/100      | 0.012                                   |                         |                         |

<sup>1</sup>Fibers per cubic centimeter of air <sup>2</sup>Time Weighted Average <sup>3</sup>BRE – Breathing Zone <sup>4</sup>STEL – Short Term Excursion Limit







**ADOT&PF Ambler Airport Repair and Dust Suppression  
Asbestos Breathing Zone Sample Analysis  
November 26, 2008**

| Date       | Sample # | Sample Type <sup>3,4</sup> | Task             | Fibers/Fields | Fiber Concentration (F/cc) <sup>1</sup> | 8-hour TWA <sup>2</sup> | Actual TWA <sup>2</sup> |
|------------|----------|----------------------------|------------------|---------------|---|-------------------------|-------------------------|
| [REDACTED] | BZ-61    | BRE                        | Apply Palliative | 13.0/100      | 0.009                                   |                         |                         |
| 8/8/08     | BZ-65    | STEL                       | Apply Palliative | 3.5/100       | <0.059                                  | <0.018                  | <0.014                  |
| [REDACTED] | BZ-69    | BRE                        | Apply Palliative | 16.0/100      | 0.015                                   |                         |                         |
| [REDACTED] | BZ-62    | BRE                        | Apply Palliative | 17.0/100      | 0.019                                   |                         |                         |
| 8/8/08     | BZ-66    | STEL                       | Apply Palliative | 1.5/100       | <0.059                                  | <0.022                  | <0.021                  |
| [REDACTED] | BZ-70    | BRE                        | Apply Palliative | 20.0/100      | 0.019                                   |                         |                         |

<sup>1</sup> Fibers per cubic centimeter of air    <sup>2</sup> Time Weighted Average    <sup>3</sup> BRE – Breathing Zone    <sup>4</sup> STEL – Short Term Excursion Limit



**ENVIRONMENTAL ENGINEERING, HEALTH & SAFETY**

Anch: 3105 Lakeshore Dr. Ste 106A, 99517 907.222.2445 Fax: 222.0915

Juneau: 119 Seward Street #10, 99801, 907.586.6813 Fax: 586-6819

Fairbanks: 2400 College Rd, 99709 907.452.5688 Fax: 452.5694

info@nortechengr.com

www.nortechengr.com

**Table 2: Asbestos Area Sample Results**

| Sample | Date   | Location        | Density<br>(Fibers/Field) | Concentration<br>(F/cc) <sup>1</sup> |
|--------|--------|-----------------|---------------------------|--------------------------------------|
| A-01   | 8/5/08 | Runway – South  | 4.0/100                   | <0.005                               |
| A-02   | 8/5/08 | Runway – South  | 7.0/100                   | <0.005                               |
| A-03   | 8/5/08 | Runway – South  | 5.0/100                   | <0.005                               |
| A-04   | 8/5/08 | Quarry          | 0.0/100                   | <0.005                               |
| A-05   | 8/5/08 | Runway – North  | 4.5/100                   | <0.005                               |
| A-06   | 8/5/08 | Runway – North  | 13.5/100                  | <0.005                               |
| A-07   | 8/5/08 | Runway – North  | 5.0/100                   | <0.005                               |
| A-08   | 8/5/08 | Quarry          | 3.0/100                   | <0.005                               |
| A-09   | 8/5/08 | Runway – North  | 9.0/100                   | 0.006                                |
| A-10   | 8/5/08 | Runway – North  | 3.5/100                   | <0.005                               |
| A-11   | 8/5/08 | Runway – North  | 4.0/100                   | <0.005                               |
| A-12   | 8/5/08 | Runway – North  | 3.0/100                   | <0.005                               |
| A-13   | 8/5/08 | Runway – North  | 2.0/100                   | <0.005                               |
| A-14   | 8/6/08 | Quarry          | 2.5/100                   | <0.005                               |
| A-15   | 8/6/08 | Apron           | 4.0/100                   | <0.005                               |
| A-16   | 8/6/08 | Apron           | 4.0/100                   | <0.005                               |
| A-17   | 8/6/08 | Apron           | 3.0/100                   | <0.005                               |
| A-18   | 8/6/08 | Apron           | 2.0/100                   | <0.005                               |
| A-19   | 8/6/08 | Apron           | 1.0/100                   | <0.005                               |
| A-20   | 8/6/08 | Apron           | 4.5/100                   | <0.005                               |
| A-21   | 8/6/08 | Apron           | 0.0/100                   | <0.005                               |
| A-22   | 8/6/08 | Apron           | 1.0/100                   | <0.005                               |
| A-23   | 8/6/08 | Apron           | 2.0/100                   | <0.005                               |
| A-24   | 8/6/08 | Apron           | 4.0/100                   | <0.005                               |
| A-25   | 8/6/08 | Apron           | 3.0/100                   | <0.005                               |
| A-26   | 8/6/08 | Apron           | 1.0/100                   | <0.005                               |
| A-27   | 8/7/08 | Apron           | 12.5/100                  | <0.005                               |
| A-28   | 8/7/08 | Apron           | 9.0/100                   | <0.005                               |
| A-29   | 8/7/08 | Apron           | 15.0/100                  | <0.005                               |
| A-30   | 8/7/08 | Apron           | 6.5/100                   | <0.005                               |
| A-31   | 8/7/08 | Runway – Middle | 8.0/100                   | <0.005                               |
| A-32   | 8/7/08 | Runway – Middle | 2.0/100                   | <0.005                               |
| A-33   | 8/7/08 | Runway – Middle | 1.0/100                   | <0.005                               |
| A-34   | 8/7/08 | Runway – Middle | 2.0/100                   | <0.005                               |
| A-35   | 8/7/08 | Runway – Middle | 4.5/100                   | <0.005                               |
| A-36   | 8/7/08 | Runway – Middle | 4.0/100                   | <0.005                               |

<sup>1</sup> Fibers per cubic centimeter

**NOTE: See Figure 3 for Sample Locations**



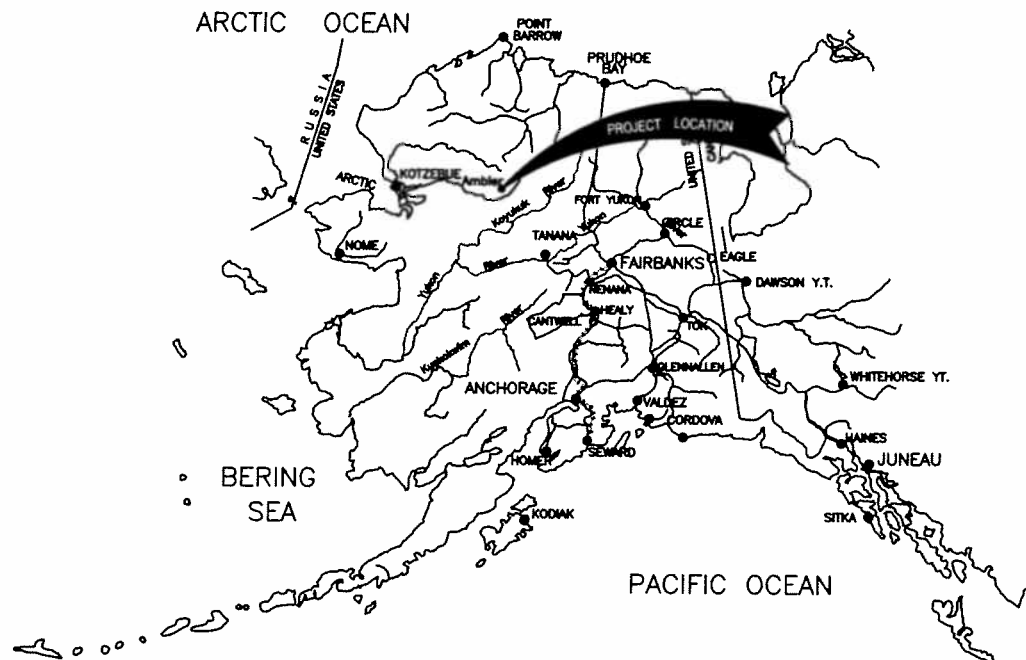


## Appendix B



# ADOT Maintenance Ambler Airport Runway Upgrade NOA Ambler, Alaska

November, 2008  
PROJECT #61021



Prepared By:



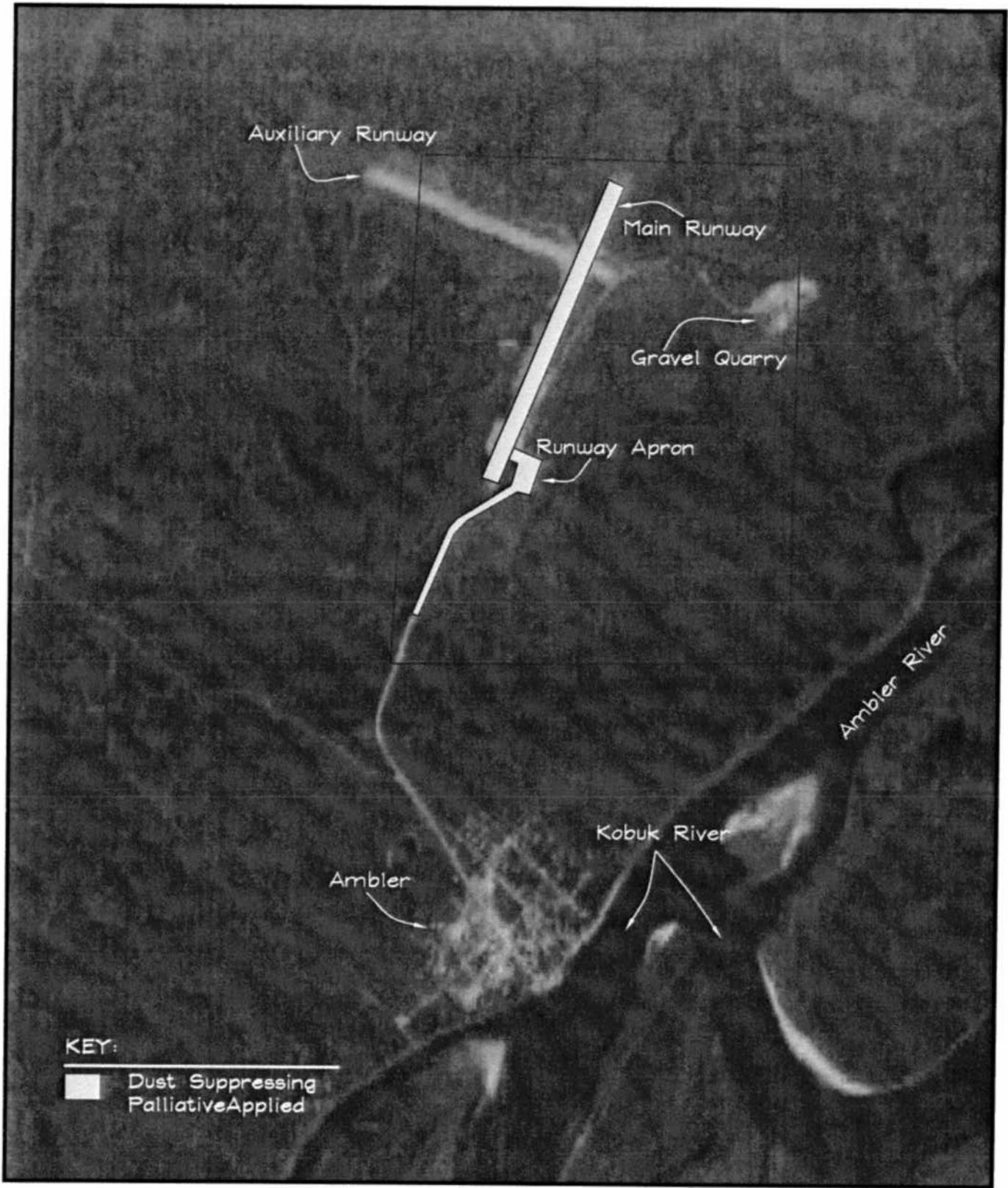
ENVIRONMENTAL ENGINEERING HEALTH & SAFETY  
2400 College Road, Fairbanks, Alaska 99709 Ph: 907-452-5688  
3105 Lakeshore Dr. Anch, Alaska 99517, Ph: 907-222-2445  
119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

## INDEX OF SHEETS

FIGURE 1: Vicinity Sheet  
FIGURE 2: Site Map  
FIGURE 3: Sample Location Map

For: Alaska Department of Transportation  
and Public Facilities

ADOT Statewide Hazardous Waste  
and Environmental Services Term  
Agreement - 2008



KEY:

■ Dust Suppressing  
Palliative Applied

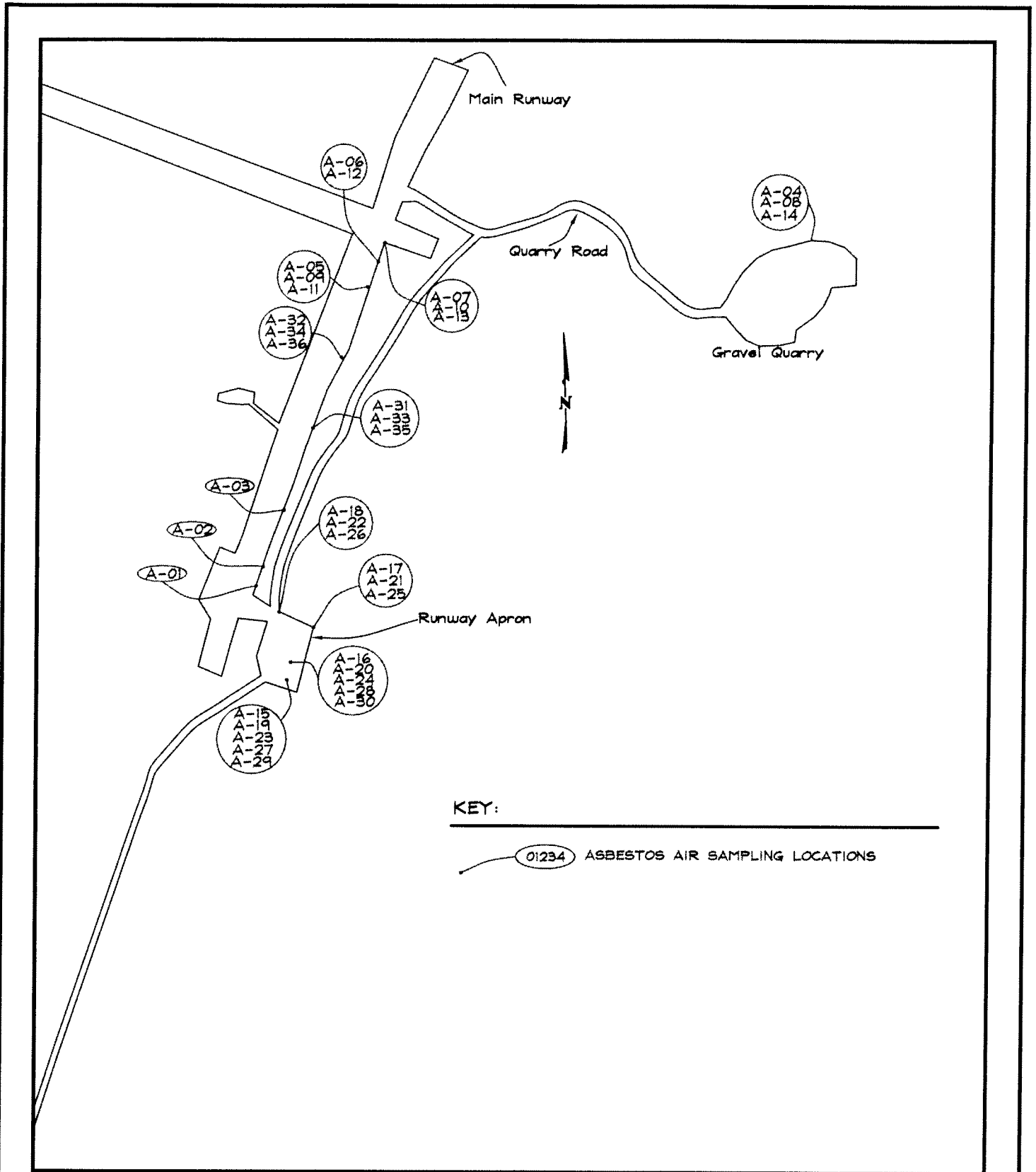


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2400 College Road, Fairbanks, Alaska 99709 Ph: 907-452-5688  
3105 Lakeshore Dr. Anch, Alaska 99517, Ph: 907-222-2445  
119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

Site Map  
ADOT Ambler Airport NOA  
Ambler, Alaska

|             |           |
|-------------|-----------|
| DATE:       | 11/18/08  |
| DESIGN:     | AW        |
| DRAWN:      | KDB       |
| PROJECT NO: | 61021     |
| DWG:        | 082500(c) |
| SCALE:      | NTS       |

FIGURE: 2



ENVIRONMENTAL ENGINEERING HEALTH & SAFETY  
 2400 College Road, Fairbanks, Alaska 99709 Ph: 907-452-5688  
 3105 Lakeshore Dr. Anch, Alaska 99517, Ph: 907-222-2445  
 119 Seward St. #10, Juneau, Alaska 99801 Ph: 907-586-6813

Asbestos Area Sample Locations  
 ADOT Ambler Airport NOA  
 Ambler, Alaska

|             |           |
|-------------|-----------|
| DATE:       | 11/18/08  |
| DESIGN:     | AW        |
| DRAWN:      | KDB       |
| PROJECT NO: | 61021     |
| DWG:        | 082500(c) |
| SCALE:      | NTS       |

FIGURE: 3



## Appendix C





ENVIRONMENTAL ENGINEERING, HEALTH & SAFETY  
Anch: 3105 Lakeshore Dr. Ste 106A, 99517  
Juneau: 119 Seward Street #10, 99801  
Fairbanks: 2400 College Rd, 99709

Project Name: ADOT R&M Ambler Airport NOA  
Project Number: 08-2500

## PHOTO PAGES



Photo 1: Loading Gravel at Quarry



Photo 2: Grading Runway



Photo 3: Spreading Gravel on Runway



Photo 4: No Visible Dust Emissions During Grading





ENVIRONMENTAL ENGINEERING, HEALTH & SAFETY  
Anch: 3105 Lakeshore Dr. Ste 106A, 99517  
Juneau: 119 Seward Street #10, 99801  
Fairbanks: 2400 College Rd, 99709

Project Name: ADOT R&M Ambler Airport NOA  
Project Number: 08-2500

## PHOTO PAGES



Photo 5: Gravel Quarry

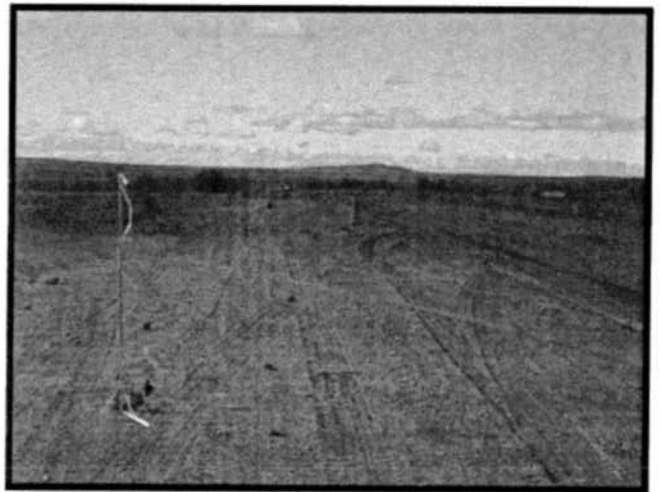


Photo 6: Area Monitoring on Runway



Photo 7: Applying Water to Runway



Photo 8: Compacting Runway



ENVIRONMENTAL ENGINEERING, HEALTH & SAFETY  
Anch: 3105 Lakeshore Dr. Ste 106A, 99517  
Juneau: 119 Seward Street #10, 99801  
Fairbanks: 2400 College Rd, 99709

Project Name: ADOT R&M Ambler Airport NOA  
Project Number: 08-2500

## PHOTO PAGES



Photo 9: Applying Palliative on Runway

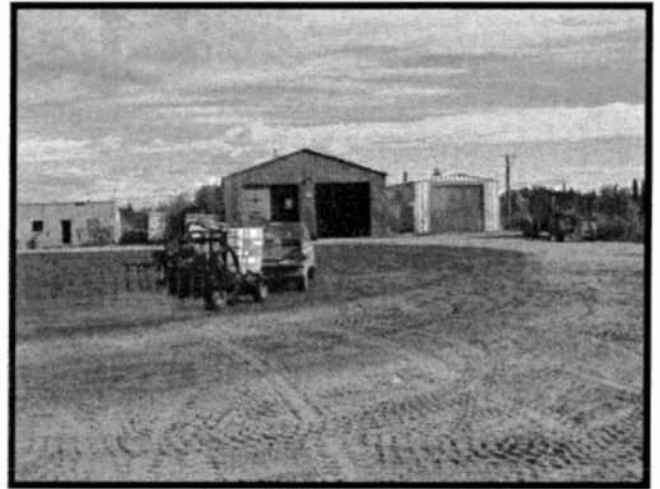


Photo 10: Applying Palliative on Apron

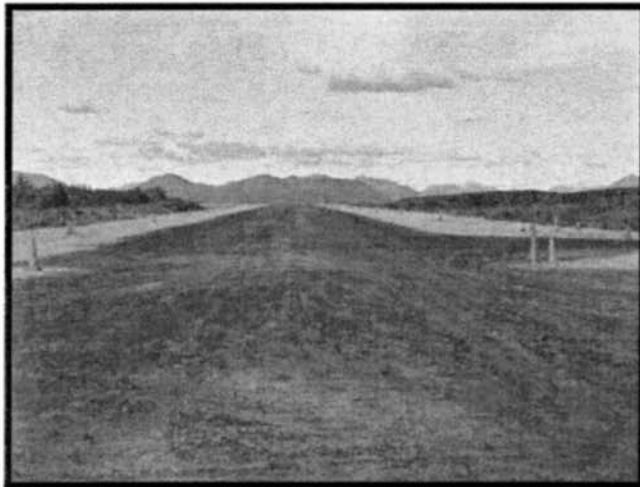


Photo 15: Runway After Palliative Application



Photo 12: Applying Palliative on Airport Road



## Appendix D



# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

## FIBER COUNT ANALYSIS SUMMARY

CLIENT: Nortech  
2400 College Road  
Fairbanks, AK 99709-3754

DATE OF SAMPLING: 04 Aug 2008  
DATE OF RECEIPT: 15 Aug 2008  
DATE OF ANALYSIS: 16 Aug 2008  
DATE OF REPORT: 18 Aug 2008

CLIENT NUMBER: [REDACTED]  
EHS PROJECT #: 2008-08-0832  
PROJECT: 08-2500-R&M Ambler; NCA

| EHS SAMPLE # | CLIENT SAMPLE#  | VOLUME LITERS(L) | FIBERS/FIELDS | FIBERS/CC |
|--------------|---|------------------|---------------|-----------|
| 01           | BZ-01   | 411.75           | 6.5/100       | 0.008     |
| 02           | BZ-05   | 236.25           | 2.5/100       | <0.013    |
| 03           | BZ-10<br>TWA= <0.014 F/cc (TWA based on Time Sampled) | 45               | 4.0/100       | <0.066    |
| 04           | BZ-02   | 375              | 15.0/100      | 0.020     |
| 05           | BZ-06   | 280              | 21.0/100      | 0.037     |
| 06           | BZ-09   | 45               | 10.5/100      | 0.11      |
| 07           | BZ-13<br>TWA= 0.034 F/cc (TWA based on Time Sampled)  | 125              | 11.0/100      | 0.043     |
| 08           | BZ-04   | 296              | 8.5/100       | 0.014     |
| 09           | BZ-08<br>TWA= 0.019 F/cc (TWA based on Time Sampled)  | 180              | 9.5/100       | 0.026     |
| 10           | BZ-07   | 376              | 10.0/100      | 0.013     |
| 11           | BZ-11   | 40               | 3.5/100       | <0.074    |
| 12           | BZ-12<br>TWA= <0.022 F/cc (TWA based on Time Sampled) | 80               | 1.5/100       | <0.037    |
| 13           | BZ-16   | 407.25           | 4.5/100       | <0.008    |
| 14           | BZ-18   | 45               | 4.0/100       | <0.066    |
| 15           | BZ-22   | 562.5            | 9.0/100       | 0.008     |
| 16           | BZ-26<br>TWA= <0.011 F/cc (TWA based on Time Sampled) | 382.5            | 8.5/100       | 0.011     |

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: ██████████  
 EHS PROJECT #: 2008-08-0832  
 PROJECT: 08-2500-R&M Ambler; NCA

| EHS SAMPLE # | CLIENT SAMPLE#  | VOLUME LITERS(L) | FIBERS/FIELDS | FIBERS/CC |
|--------------|---|------------------|---------------|-----------|
| 17           | BZ-14   | 462.5            | 32.0/100      | 0.034     |
| 18           | BZ-20   | 50               | 5.5/100       | <0.059    |
| 19           | BZ-23   | 637.5            | 21.5/100      | 0.017     |
| 20           | BZ-27<br>TWA= <0.024 F/cc (TWA based on Time Sampled) | 412.5            | 16.0/100      | 0.019     |
| 21           | BZ-17   | 510              | 15.5/100      | 0.015     |
| 22           | BZ-21   | 46               | 5.5/100       | <0.064    |
| 23           | BZ-24<br>TWA= <0.012 F/cc (TWA based on Time Sampled) | 970              | 14.5/100      | 0.007     |
| 24           | BZ-15   | 360              | 12.0/100      | 0.016     |
| 25           | BZ-19   | 44               | 8.5/100       | 0.095     |
| 26           | BZ-25   | 510              | 19.0/100      | 0.018     |
| 27           | BZ-28<br>TWA=0.028 F/cc (TWA based on Time Sampled)   | 330              | 31.0/100      | 0.046     |
| 28           | BZ-29   | 443.25           | 12.5/100      | 0.014     |
| 29           | BZ-34   | 335.25           | 11.0/100      | 0.016     |
| 30           | BZ-36   | 40.5             | 3.5/100       | <0.073    |
| 31           | BZ-40<br>TWA= <0.018 F/cc (TWA based on Time Sampled) | 171              | 6.0/100       | <0.017    |
| 32           | BZ-30   | 462.5            | 20.5/100      | 0.022     |
| 33           | BZ-33   | 370              | 16.5/100      | 0.022     |
| 34           | BZ-37   | 45               | 1.0/100       | <0.066    |
| 35           | BZ-41<br>TWA= <0.027 F/cc (TWA based on Time Sampled) | 197.5            | 15.0/100      | 0.037     |
| 36           | BZ-31   | 858              | 39.0/100      | 0.022     |
| 37           | BZ-38   | 46               | 5.5/100       | <0.064    |

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: [REDACTED]

EHS PROJECT #: 2008-08-0832

PROJECT: 08-2500-R&M Ambler; NCA

| EHS<br>SAMPLE # | CLIENT<br>SAMPLE#                                     | VOLUME<br>LITERS(L) | FIBERS/FIELDS | FIBERS/CC |
|-----------------|---|---------------------|---------------|-----------|
| 38              | BZ-42<br>TWA= <0.029 F/cc (TWA based on Time Sampled) | 156                 | 17.0/100      | 0.053     |
| 39              | BZ-32   | 368                 | 16.0/100      | 0.021     |
| 40              | BZ-35   | 280                 | 12.5/100      | 0.022     |
| 41              | BZ-39   | 36                  | 3.5/100       | <0.082    |
| 42              | BZ-43<br>TWA= <0.026 F/cc (TWA based on Time Sampled) | 154                 | 9.0/100       | 0.029     |
| 43              | BZ-44   | 225                 | 2.5/100       | <0.014    |
| 44              | BZ-50   | 342                 | 17.5/100      | 0.025     |
| 45              | BZ-51   | 45                  | 7.5/100       | 0.082     |
| 46              | BZ-55<br>TWA= <0.026 F/cc (TWA based on Time Sampled) | 112.5               | 6.0/100       | 0.026     |
| 47              | BZ-45   | 612.5               | 33.0/100      | 0.026     |
| 48              | BZ-48   | 600                 | 35.0/100      | 0.029     |
| 49              | BZ-52   | 50                  | 24.5/100      | 0.24      |
| 50              | BZ-56<br>TWA= 0.039 F/cc (TWA based on Time Sampled)  | 125                 | 18.0/100      | 0.071     |
| 51              | BZ-46   | 1396                | 28.5/100      | 0.010     |
| 52              | BZ-53   | 30                  | 0.0/100       | <0.099    |
| 53              | BZ-57<br>TWA= <0.016 F/cc (TWA based on Time Sampled) | 100                 | 13.0/100      | 0.064     |
| 54              | BZ-47   | 480                 | 12.0/100      | 0.012     |
| 55              | BZ-49   | 480                 | 19.0/100      | 0.019     |
| 56              | BZ-54   | 40                  | 5.0/100       | <0.074    |
| 57              | BZ-58<br>TWA= <0.019 F/cc (TWA based on Time Sampled) | 100                 | 3.5/100       | <0.030    |
| 58              | BZ-59   | 495                 | 11.5/100      | 0.011     |

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.


CLIENT NUMBER: [REDACTED]  
EHS PROJECT #: 2008-08-0832  
PROJECT: 08-2500-R&M Ambler; NCA

| EHS SAMPLE # | CLIENT SAMPLE#  | VOLUME LITERS(L) | FIBERS/FIELDS | FIBERS/CC |
|--------------|---|------------------|---------------|-----------|
| 59           | BZ-63   | 45               | 5.0/100       | <0.066    |
| 60           | BZ-67<br>TWA= <0.016 F/cc (TWA based on Time Sampled) | 506.25           | 17.0/100      | 0.016     |
| 61           | BZ-60   | 550              | 18.5/100      | 0.016     |
| 62           | BZ-64   | 62.5             | 2.5/100       | <0.048    |
| 63           | BZ-68<br>TWA= <0.016 F/cc (TWA based on Time Sampled) | 750              | 19.0/100      | 0.012     |
| 64           | BZ-61   | 730              | 13.0/100      | 0.009     |
| 65           | BZ-65   | 50               | 3.5/100       | <0.059    |
| 66           | BZ-69<br>TWA= <0.014 F/cc (TWA based on Time Sampled) | 530              | 16.0/100      | 0.015     |
| 67           | BZ-62   | 440              | 17.0/100      | 0.019     |
| 68           | BZ-66   | 50               | 1.5/100       | <0.059    |
| 69           | BZ-70<br>TWA= <0.021 F/cc (TWA based on Time Sample)  | 530              | 20.0/100      | 0.019     |

METHOD: NIOSH 7400, Issue 2, 08/15/94

ANALYST: Christian H. Schaible

Reviewed By Authorized Signatory:

  
Howard Varner, General Manager  
Irma Faszewski, Quality Assurance Coordinator

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: 2-2641 A  
EHS PROJECT #: 2008-08-0832  
PROJECT: 08-2500-R&M Ambler; NCA

Interlaboratory Sr for fiber count ranges 5-20, 20-50, and >50 respectively are 0.136, 0.118, 0.111. Intralaboratory Sr for fiber count ranges 5-20, 20-50, and >50 respectively are 0.179, 0.108, 0.052 for Mark Case; 0.189, 0.108, 0.050 for Kathy Sizemore; and 0.175, 0.105, 0.050 for all other analysts.

**NOTE:** The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. The submission of blank samples is required by sampling methodologies. EHS sample results (fibers/cc) are blank corrected, per NIOSH 7400, when the client submits blank samples. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full without the written consent of Environmental Hazards Services, L.L.C.  
California Certification #2319 NY ELAP #11714

Method Level of Detection: Estimated at 7 fibers/mm<sup>2</sup>.

---

**LEGEND**      L = liters      fibers/mm<sup>2</sup> = fibers per square millimeter  
                  fibers/cc = fibers per cubic centimeter

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pcm3.dot/05AUG2008/REV3/ MR

-- PAGE 05 of 05 -- END OF REPORT --

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69 per

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: Z-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915  
 P.O. #: 08-2500 NCA

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead                 |     |           |             | Other Metals                |      |                   |           | Indoor Air Quality |             |              |                     | Particulate: Total Nuisance (NIOSH 0500) |       | Comments | Time elapsed during sample collection (Minutes) |              |              |            |  |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|----------------------|-----|-----------|-------------|-----------------------------|------|-------------------|-----------|--------------------|-------------|--------------|---------------------|--|-------|----------|---|--------------|--------------|------------|--|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM) | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb) | Waste Water        | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile | Biocassette                              | Slide |          |   | Surface Swab | Surface Tape | Bulk       | Air Volume (L) OR Wipe Area (ft <sup>2</sup> ) OR Scrape Area (cm <sup>2</sup> ) |
| BZ-01         | 8/4/08             | X              |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 41.75 L      |              | calculate  | 183  |
| BZ-05         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 236.25 L     |              | 8-hour     | 105  |
| BZ-10         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 45 L         |              | TWA        | 20   |
| BZ-02         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 375 L        |              | calculate  | 170  |
| BZ-06         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 280 L        |              | 8-hour TWA | 112  |
| BZ-09         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 45 L         |              | 8-hour TWA | 18   |
| BZ-13         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 125 L        |              | calculate  | 50   |
| BZ-04         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 296 L        |              | calculate  | 148  |
| BZ-08         |                    |                |                   |                 |                 |                      |     |           |             |                             |      |                   |           |                    |             |              |                     |  |       |          |   | 180 L        |              | 8-hour TWA | 90   |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: [Signature] Signature: [Signature] Date/Time: 8/13/08 10:00  
 Received by: [Signature] Signature: [Signature] Date/Time: 8/15/08 10:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]

Revised 4/9

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amblec  
Phone #: 907-266-4280 Fax #: 907-222-0915  
P.O. #: 08-2500 NCA

| Sample Number | Sample Date & Time | Asbestos       |                   |                 | Lead            |                 |                      |     |           |             | Other Metals                |      |                   | Indoor Air Quality |             |             | Particulate: Total Nuisance (NIOSH 0500) <input type="checkbox"/><br>Respirable (NIOSH 0600) <input type="checkbox"/> | Comments | Time elapsed during Sample collection (minutes) |              |                     |             |           |              |              |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|-------------|-----------------------------|------|-------------------|--------------------|-------------|-------------|---|----------|---|--------------|---------------------|-------------|-----------|--------------|--------------|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM) | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 |   |          |   | Welding Fume | Toxic Metal Profile | Biocassette | Slide     | Surface Swab | Surface Tape |
| BZ-03         | 8/4/08             | X              |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             | calculate | N/A          |              |
| BZ-07         | 8/4/08             |                |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             |           | 8-hour       | 188          |
| BZ-11         | 8/4/08             |                |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             |           | TWA          | 20           |
| BZ-12         | 8/4/08             |                |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             |           | calculate    | 181          |
| BZ-16         | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             |           | calculate    | 20           |
| BZ-18         | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             |           | 8-hour       | 250          |
| BZ-20         | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |             |                             |      |                   |                    |             |             |   |          |   |              |                     |             |           | TWA          | 170          |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randolph Signature: [Signature] Date/Time: 8/13/08 @ 1600  
Received by: [Signature] Signature: [Signature] Date/Time: 8/15/08 10:00  
Released by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

10/14

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: Z-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915  
 P.O. #: 08-2500 NCA

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 |                 |                      | Lead |           |             |                             | Other Metals |                  |           |             | Indoor Air Quality |              |                     |             | Particulate: Total Nuisance (NIOSH 0500) |              | Comments | Time elapsed during sample collection (min) |              |      |                |                              |                                |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|------|-----------|-------------|-----------------------------|--------------|------------------|-----------|-------------|--------------------|--------------|---------------------|-------------|--|--------------|----------|---|--------------|------|----------------|------------------------------|--------------------------------|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air  | Paint (%) | Paint (PPM) | Paint (mg/cm <sup>2</sup> ) | Soil         | Wipe* (See Note) | TCLP (Pb) | Waste Water | TCLP RCRA 8        | Welding Fume | Toxic Metal Profile | Biocassette | Slide                                    | Surface Swab |          |   | Surface Tape | Bulk | Air Volume (L) | Wipe Area (ft <sup>2</sup> ) | Scrape Area (cm <sup>2</sup> ) |
| BZ-14         | 8/5/08             | X              |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 462.5L                                      |              |      |                | calculate                    | 185                            |
| BZ-20         |                    |                |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 50L   |              |      |                | 8-hour                       | 20                             |
| BZ-23         |                    |                |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 637.5L                                      |              |      |                | TWA                          | 255                            |
| BZ-27         |                    |                |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 412.5L                                      |              |      |                | calculate                    | 165                            |
| BZ-17         |                    |                |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 510L  |              |      |                | 8-hour                       | 255                            |
| BZ-21         |                    |                |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 46L   |              |      |                | 8-hour                       | 23                             |
| BZ-24         |                    |                |                   |                 |                 |                 |                      |      |           |             |                             |              |                  |           |             |                    |              |                     |             |  |              |          | 970L  |              |      |                | TWA                          | 485                            |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randolph Signature: [Signature] Date/Time: 8/13/08 01600  
 Received by: K. Suzanne Signature: [Signature] Date/Time: 8/15/08 10100  
 Released by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals |                             |      |                   | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500) |             | Comments | Time elapsed during sample collection (minutes) |       |              |              |      |  |                         |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|--------------|-----------------------------|------|-------------------|--------------------|-------------|-------------|--------------|--|-------------|----------|---|-------|--------------|--------------|------|--|-------------------------|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)  | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile                      | Biocassette |          |   | Slide | Surface Swab | Surface Tape | Bulk | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) | Respirable (NIOSH 0600) |
| BZ-15         | 8/5/08             | X              |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 360 L        |              |      | calculate  | 180                     |
| BZ-19         | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 44 L         |              |      | 8-hour   | 22                      |
| BZ-25         | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 510 L        |              |      | TWA  | 255                     |
| BZ-28         | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 330 L        |              |      |  | 165                     |
| BZ-29         | 8/6/08             | X              |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 443.25 L     |              |      | calculate  | 197                     |
| BZ-34         | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 335.25 L     |              |      | calculate  | 149                     |
| BZ-36         | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 40.5 L       |              |      | 8-hour   | 18                      |
| BZ-40         | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 171 L        |              |      | TWA  | 76                      |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randolph Signature: Amy Randolph Date/Time: 8/13/08 @ 16:00  
 Received by: K. Sigmon Signature: [Signature] Date/Time: 8/15/08 12:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: Z-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number    | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals |                             |      |                   | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500) |             | Comments | Time elapsed during sample collection (min) |       |              |              |      |
|------------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|--------------|-----------------------------|------|-------------------|--------------------|-------------|-------------|--------------|--|-------------|----------|---|-------|--------------|--------------|------|
|                  |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)  | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile                      | Biocassette |          |   | Slide | Surface Swab | Surface Tape | Bulk |
| B2-30            | 8/14/08            | X              |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 462.5 L      | calculate    | 185  |
| B2-33            |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 370 L        | 8-hour       | 148  |
| B2-37            |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 45 L         | TWA          | 18   |
| B2-41            |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 197.5 L      |              | 79   |
| B2-31            |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 858 L        | calculate    | 42   |
| B2-38            |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 46 L         | 8-hour       | 18   |
| B2-42            |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       | 156 L        | TWA          | 78   |
| <del>B2-42</del> |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |   |       |              |              |      |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Any Rando Signature: [Signature] Date/Time: 8/13/08 @ 1600  
 Received by: [Signature] Signature: [Signature] Date/Time: 8/13/08 10:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [Redacted]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [Redacted]  
 EHS Client Account #: Z-2641-A Project #: 08-2500 - R.I.M Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals<br>(Specify metals below) |                             |      |                   | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500)<br>Respirable (NIOSH 0600) |            | Comments | Time elapsed during sample collection (minutes) |       |              |              |           |  |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|--|-----------------------------|------|-------------------|--------------------|-------------|-------------|--------------|---|------------|----------|---|-------|--------------|--------------|-----------|--|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)                            | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile   | Bioassette |          |   | Slide | Surface Swab | Surface Tape | Bulk      | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) |
| BZ-32         | 8/6/08             | X              |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 368L         | calculate | 184  |
| BZ-35         |                    |                |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 280L         | 8-hour    | 140  |
| BZ-39         |                    |                |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 36L          | TWA       | 18   |
| BZ-43         |                    |                |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 154L         |           | 77   |
| BZ-44         | 8/7/08             | X              |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 225L         | calculate | 100  |
| BZ-50         |                    |                |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 342L         | 8 hour    | 152  |
| BZ-51         |                    |                |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 45L          | TWA       | 20   |
| BZ-55         |                    |                |                   |                 |                 |                 |                      |     |           |  |                             |      |                   |                    |             |             |              |   |            |          |   |       |              | 112.5L       |           | 50   |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Rando Signature: [Signature] Date/Time: 8/13/08 @ 1600  
 Received by: [Signature] Signature: [Signature] Date/Time: 8/13/08 10:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Vertech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 |                 |                      | Lead |           |             |                             | Other Metals<br>(Specify metals below) |                   |           |             | Indoor Air Quality |              |                     |             | Particulate: Total Nuisance (NIOSH 0500)<br>Respirable (NIOSH 0600) |              | Comments | Time elapsed during sample collection (minutes) |              |      |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|------|-----------|-------------|-----------------------------|--|-------------------|-----------|-------------|--------------------|--------------|---------------------|-------------|---|--------------|----------|---|--------------|------|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air  | Paint (%) | Paint (PPM) | Paint (mg/cm <sup>2</sup> ) | Soil                                   | Wipe * (See Note) | TCLP (Pb) | Waste Water | TCLP RCRA 8        | Welding Fume | Toxic Metal Profile | Biocassette | Slide   | Surface Swab |          |   | Surface Tape | Bulk |
| BZ-45         | 8/7/08             | X              |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 612.5 L   | calculate    | 245  |
| BZ-48         | 8/7/08             |                |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 600 L   | 8-hour       | 240  |
| BZ-52         | 8/7/08             |                |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 50 L  | TWA          | 20   |
| BZ-56         | 8/7/08             |                |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 125 L   |              | 50   |
| BZ-46         | 8/7/08             |                |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 1396 L  | calculate    | 698  |
| BZ-53         | 8/7/08             |                |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 30 L  | 8 hour       | 15   |
| BZ-57         | 8/7/08             |                |                   |                 |                 |                 |                      |      |           |             |                             |  |                   |           |             |                    |              |                     |             |   |              |          | 100 L   | TWA          | 50   |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randolph Signature: [Signature] Date/Time: 8/13/08 @ 1600  
 Received by: K. S. [Signature] Signature: [Signature] Date/Time: 8/13/08 10:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Wortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals<br><small>(Specify metals below)</small> |                             |      |                  | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500) |             | Comments | Time elapsed during sample collection (minutes) |       |              |              |      |  |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|---|-----------------------------|------|------------------|--------------------|-------------|-------------|--------------|--|-------------|----------|---|-------|--------------|--------------|------|--|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)   | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe* (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile                      | Biocassette |          |   | Slide | Surface Swab | Surface Tape | Bulk | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) |
| B2-47         | 8/7/08             | X              |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 480 L        |              |      | 240  |
| B2-49         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 480 L        | calculate    |      | 240  |
| B2-54         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 40 L         | 8-hour       |      | 20   |
| B2-58         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 100 L        | TWA          |      | 50   |
| B2-59         | 8/8/08             | X              |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 495 L        | calculate    |      | 220  |
| B2-63         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 45 L         | 8 hour       |      | 20   |
| B2-67         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 506.35 L     | TWA          |      | 225  |
| B2-60         | 8/8/08             | X              |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 550 L        | calculate    |      | 220  |
| B2-64         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 62.5 L       | 8 hour       |      | 25   |
| B2-68         |                    |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                  |                    |             |             |              |  |             |          |   |       | 750 L        | TWA          |      | 300  |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Reynolds Signature: [Signature] Date/Time: 8/13/08 1600  
 Received by: [Signature] Signature: [Signature] Date/Time: 8/28/08 10100  
 Released by: [Signature] Signature: [Signature] Date/Time:   
 Received by: [Signature] Signature: [Signature] Date/Time:



ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: Z-2641-A Project #: 08-2500 - RIM Amble  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals |                             |      |                   | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500) |             | Comments |       |              |              |      |  |                         |   |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|--------------|-----------------------------|------|-------------------|--------------------|-------------|-------------|--------------|--|-------------|----------|-------|--------------|--------------|------|--|-------------------------|---|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)  | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile                      | Biocassette |          | Slide | Surface Swab | Surface Tape | Bulk | Air Volume (L) OR Wipe Area (ft <sup>2</sup> ) OR Scrape Area (cm <sup>2</sup> ) | Respirable (NIOSH 0600) |   |
| BZ-61         | 8/8/08             | X              |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              | 730 L        |      |  | calculate               | Time elapsed during sampling collection (minutes) 365 |
| BZ-65         |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              | 50 L         |      |  | 8 hour                  | 25  |
| BZ-69         |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              | 530 L        |      |  | TWA                     | 265   |
| BZ-62         |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              | 440 L        |      |  | calculate               | 220   |
| BZ-66         |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              | 50 L         |      |  | 8 hour                  | 25  |
| BZ-70         |                    |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              | 530 L        |      |  | TWA                     | 265   |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randol Signature: Amy Randol Date/Time: 8/13/08 1600  
 Received by: K. S. Brown Signature: [Signature] Date/Time: 8/15/08 10:50  
 Released by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

7469 WHITE PINE ROAD - RICHMOND, VA 23237

804-275-4788 FAX 804-275-4907

## FIBER COUNT ANALYSIS SUMMARY

CLIENT: Nortech  
2400 College Road  
Fairbanks, AK 99709-3754

DATE OF SAMPLING: 05-08 Aug 2008  
DATE OF RECEIPT: 15 Aug 2008  
DATE OF ANALYSIS: 15 Aug 2008  
DATE OF REPORT: 16 Aug 2008

CLIENT NUMBER: [REDACTED]  
EHS PROJECT #: 2008-08-0831  
PROJECT: 08-2500-R&M Ambler; NCA

| <u>EHS<br/>SAMPLE #</u> | <u>CLIENT<br/>SAMPLE#</u> | <u>VOLUME<br/>LITERS(L)</u> | <u>FIBERS/FIELDS</u> | <u>FIBERS/CC</u> |
|-------------------------|---------------------------|-----------------------------|----------------------|------------------|
| 01                      | A-01                      | 2450                        | 4.0/100              | <0.005           |
| 02                      | A-02                      | 2450                        | 7.0/100              | <0.005           |
| 03                      | A-03                      | 2250                        | 5.0/100              | <0.005           |
| 04                      | A-04                      | 2200                        | 0.0/100              | <0.005           |
| 05                      | A-05                      | 920                         | 4.5/100              | <0.005           |
| 06                      | A-06                      | 1700                        | 13.5/100             | <0.005           |
| 07                      | A-07                      | 900                         | 5.0/100              | <0.005           |
| 08                      | A-08                      | 949.2                       | 3.0/100              | <0.005           |
| 09                      | A-09                      | 760                         | 9.0/100              | 0.006            |
| 10                      | A-10                      | 720                         | 3.5/100              | <0.005           |
| 11                      | A-11                      | 2990                        | 4.0/100              | <0.005           |
| 12                      | A-12                      | 2970                        | 3.0/100              | <0.005           |
| 13                      | A-13                      | 2950                        | 2.0/100              | <0.005           |
| 14                      | A-14                      | 766.5                       | 2.5/100              | <0.005           |
| 15                      | A-15                      | 1020                        | 4.0/100              | <0.005           |
| 16                      | A-16                      | 1020                        | 4.0/100              | <0.005           |
| 17                      | A-17                      | 850                         | 3.0/100              | <0.005           |
| 18                      | A-18                      | 850                         | 2.0/100              | <0.005           |
| 19                      | A-19                      | 1150                        | 1.0/100              | <0.005           |

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: [REDACTED]  
EHS PROJECT #: 2008-08-0831  
PROJECT: 08-2500-R&M Ambler; NCA

| EHS SAMPLE # | CLIENT SAMPLE# | VOLUME LITERS(L) | FIBERS/FIELDS | FIBERS/CC |
|--------------|----------------|------------------|---------------|-----------|
| 20           | A-20           | 1150             | 4.5/100       | <0.005    |
| 21           | A-21           | 1150             | 0.0/100       | <0.005    |
| 22           | A-22           | 1150             | 1.0/100       | <0.005    |
| 23           | A-23           | 740              | 2.0/100       | <0.005    |
| 24           | A-24           | 740              | 4.0/100       | <0.005    |
| 25           | A-25           | 750              | 3.0/100       | <0.005    |
| 26           | A-26           | 750              | 1.0/100       | <0.005    |
| 27           | A-27           | 3000             | 12.5/100      | <0.005    |
| 28           | A-28           | 3000             | 9.0/100       | <0.005    |
| 29           | A-29           | 2460             | 15.0/100      | <0.005    |
| 30           | A-30           | 2200             | 6.5/100       | <0.005    |
| 31           | A-31           | 2420             | 8.0/100       | <0.005    |
| 32           | A-32           | 2420             | 2.0/100       | <0.005    |
| 33           | A-33           | 1550             | 1.0/100       | <0.005    |
| 34           | A-34           | 1550             | 2.0/100       | <0.005    |
| 35           | A-35           | 2200             | 4.5/100       | <0.005    |
| 36           | A-36           | 2200             | 4.0/100       | <0.005    |

METHOD: NIOSH 7400, Issue 2, 08/15/94

ANALYST: Mark Case

Reviewed By Authorized Signatory:



Howard Varner, General Manager  
Irma Faszewski, Quality Assurance Coordinator

# ENVIRONMENTAL HAZARDS SERVICES, L.L.C.

CLIENT NUMBER: ██████████  
EHS PROJECT #: 2008-08-0831  
PROJECT: 08-2500-R&M Ambler; NCA

Interlaboratory Sr for fiber count ranges 5-20, 20-50, and >50 respectively are 0.136, 0.118, 0.111. Intralaboratory Sr for fiber count ranges 5-20, 20-50, and >50 respectively are 0.179, 0.108, 0.052 for Mark Case; 0.189, 0.108, 0.050 for Kathy Sizemore; and 0.175, 0.105, 0.050 for all other analysts.

**NOTE:** The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. The submission of blank samples is required by sampling methodologies. EHS sample results (fibers/cc) are blank corrected, per NIOSH 7400, when the client submits blank samples. If the report does not contain the result for a field blank, it is due to the fact that the client did not include a field blank with their samples. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full without the written consent of Environmental Hazards Services, L.L.C.  
California Certification #2319 NY ELAP #11714

Method Level of Detection: Estimated at 7 fibers/mm<sup>2</sup>.

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|               |   |   |
|---------------|---|---|
| <b>LEGEND</b> | L = liters                              | fibers/mm <sup>2</sup> = fibers per square millimeter |
|               | fibers/cc = fibers per cubic centimeter |   |

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pcm3.dot/05AUG2008/REV3/ MR

4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150.

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360pcr ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
9199 Line Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Arttech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amber  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead                 |     |           |             | Other Metals<br><small>(Specify metals below)</small> |                  |           |             | Indoor Air Quality |              |                     |             | Particulate: Total Nuisance (NIOSH 0500) |              | Comments |              |        |  |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|----------------------|-----|-----------|-------------|---|------------------|-----------|-------------|--------------------|--------------|---------------------|-------------|--|--------------|----------|--------------|--------|--|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM) | Paint (mg/cm <sup>2</sup> )                           | Wipe* (See Note) | TCLP (Pb) | Waste Water | TCLP RCRA 8        | Welding Fume | Toxic Metal Profile | Biocassette | Slide                                    | Surface Swab |          | Surface Tape | Bulk   | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) |
| A-01          | 8/5/08             | X              |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 2450L  | <input type="checkbox"/>   |
| A-02          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 2450L  | <input type="checkbox"/>   |
| A-03          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 2250L  | <input type="checkbox"/>   |
| A-04          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 2200L  | <input type="checkbox"/>   |
| A-05          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 920L   | <input type="checkbox"/>   |
| A-06          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 1780L  | <input type="checkbox"/>   |
| A-07          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 900L   | <input type="checkbox"/>   |
| A-08          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 949.2L | <input type="checkbox"/>   |
| A-09          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 760L   | <input type="checkbox"/>   |
| A-10          | 8/5/08             |                |                   |                 |                 |                      |     |           |             |   |                  |           |             |                    |              |                     |             |  |              |          |              | 720L   | <input type="checkbox"/>   |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randolph Signature: [Signature] Date/Time: 8/13/08 C 1345  
 Received by: H. Sigmond Signature: [Signature] Date/Time: 8/5/08 10:20  
 Released by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals |                             |      |                  | Indoor Air Quality |             |             |              | Particulate         |             | Comments |       |              |              |      |  |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|--------------|-----------------------------|------|------------------|--------------------|-------------|-------------|--------------|---------------------|-------------|----------|-------|--------------|--------------|------|--|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)  | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe* (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile | Biocassette |          | Slide | Surface Swab | Surface Tape | Bulk | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) |
| A-11          | 8/5/08             | X              |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 2990 L       |      |  |
| A-12          | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 2970 L       |      |  |
| A-13          | 8/5/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 2950 L       |      |  |
| A-14          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 716.5 L      |      |  |
| A-15          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 1020 L       |      |  |
| A-16          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 1020 L       |      |  |
| A-17          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 850 L        |      |  |
| A-18          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 850 L        |      |  |
| A-19          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 1150 L       |      |  |
| A-20          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                  |                    |             |             |              |                     |             |          |       |              | 1150 L       |      |  |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randolph Signature: Amy Randolph Date/Time: 8/13/08 @ 1345  
 Received by: K. Sigmond Signature: [Signature] Date/Time: 8/15/08 10:00  
 Released by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Signature: \_\_\_\_\_ Date/Time: \_\_\_\_\_

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amblec  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals<br><small>(Specify metals below)</small> |                             |      |                   | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500) |             | Comments |       |              |              |      |  |                         |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|---|-----------------------------|------|-------------------|--------------------|-------------|-------------|--------------|--|-------------|----------|-------|--------------|--------------|------|--|-------------------------|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)   | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile                      | Biocassette |          | Slide | Surface Swab | Surface Tape | Bulk | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) | Respirable (NIOSH 0600) |
| A-21          | 8/6/08             | X              |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-22          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-23          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-24          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-25          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-26          | 8/6/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-27          | 8/7/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-28          | 8/7/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-29          | 8/7/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |
| A-30          | 8/7/08             |                |                   |                 |                 |                 |                      |     |           |   |                             |      |                   |                    |             |             |              |  |             |          |       |              |              |      |  |                         |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Raneloh Signature: [Signature] Date/Time: 8/13/08 01345  
 Received by: [Signature] Signature: [Signature] Date/Time: 8/15/08 10:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]

r. 4 of 4

ENVIRONMENTAL HAZARDS SERVICES, L.L.C.  
 7469 Whitepine Road Richmond, Virginia 23237 Phone (804) 275-4788 Fax (804) 275-4907

**CHAIN OF CUSTODY FORM**

Company Name: Nortech Date: 8/13/08  
 Address: 3105 Lakeshore Drive STE 106A Contact Name: [REDACTED]  
 City, State, Zip: Anchorage, AK 99517 Sampler Name: [REDACTED]  
 EHS Client Account #: 2-2641-A Project #: 08-2500 - RIM Amble  
 Phone #: 907-266-4280 Fax #: 907-222-0915 NCA  
 P.O. #: 08-2500

| Sample Number | Sample Date & Time | Asbestos       |                   |                 |                 | Lead            |                      |     |           | Other Metals |                             |      |                   | Indoor Air Quality |             |             |              | Particulate: Total Nuisance (NIOSH 0500) |             | Comments |       |              |              |        |  |
|---------------|--------------------|----------------|-------------------|-----------------|-----------------|-----------------|----------------------|-----|-----------|--------------|-----------------------------|------|-------------------|--------------------|-------------|-------------|--------------|--|-------------|----------|-------|--------------|--------------|--------|--|
|               |                    | Bulk ID by PLM | (PCM) Fiber Count | PLM Point Count | PLM Gravimetric | TEM AHERA (Air) | TEM Chatfield (Bulk) | Air | Paint (%) | Paint (PPM)  | Paint (mg/cm <sup>2</sup> ) | Soil | Wipe * (See Note) | TCLP (Pb)          | Waste Water | TCLP RCRA 8 | Welding Fume | Toxic Metal Profile                      | Biocassette |          | Slide | Surface Swab | Surface Tape | Bulk   | Air Volume (L)<br>OR<br>Wipe Area (ft <sup>2</sup> )<br>OR<br>Scrape Area (cm <sup>2</sup> ) |
| A-31          | 8/7/08             | X              |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              |              | 2420 L | <input type="checkbox"/>   |
| A-32          | 8/7/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              |              | 2420 L | <input type="checkbox"/>   |
| A-33          | 8/8/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              |              | 1550 L | <input type="checkbox"/>   |
| A-34          | 8/8/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              |              | 1550 L | <input type="checkbox"/>   |
| A-35          | 8/8/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              |              | 2200 L | <input type="checkbox"/>   |
| A-36          | 8/8/08             |                |                   |                 |                 |                 |                      |     |           |              |                             |      |                   |                    |             |             |              |  |             |          |       |              |              | 2200 L | <input type="checkbox"/>   |

\* Do wipe samples submitted meet ASTM E1792 requirements? Yes  No

Released by: Amy Randol Signature: [Signature] Date/Time: 8/13/08 1345  
 Received by: [Signature] Signature: [Signature] Date/Time: 8/5/08 10:00  
 Released by: [Signature] Signature: [Signature] Date/Time: [Signature]  
 Received by: [Signature] Signature: [Signature] Date/Time: [Signature]